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Please amend the claims as follows:

1-7. (Cancelled)

- 8. (Twice Amended) An apparatus for producing acrylic acid or acrolein, comprising:
 - a) an evaporator for gasifying liquefied propylene and/or propane,
 - b) means for supplying a liquid coolant in the range of 0 to 50° C to said evaporator,
 - c) means for chilling the coolant in the range of -10 to 40° C in the evaporator by recovering latent heat of the liquefied propylene and/or propane,
 - d) means for subjecting resultant gasified propylene and/or propane to a catalytic gas phase oxidation reaction thereby preparing a gas containing acrylic acid or acrolein, and
 - e) means for circulating coolant from the evaporator to heat exchangers attached to the apparatus.
- 9. (Amended) An apparatus according to claim 8, wherein said means for chilling the coolant includes means for adjusting a temperature of said liquid coolant or means for adjusting a flow amount thereof.
- 10. (Twice Amended) An apparatus according to claim 8, which further comprises means for circulating coolant from said heat exchangers to the means for chilling the coolant.
- 11. (Entered) A method for producing acrylic acid or acrolein, comprising: gasifying liquefied propylene and/or propane in an apparatus of claim 8.
- 12. (Entered) A method for producing acrylic acid or acrolein, comprising: gasifying liquefied propylene and/or propane in an apparatus of claim 9.
- 13. (Entered) A method for producing acrylic acid or acrolein, comprising: gasifying liquefied propylene and/or propane in an apparatus of claim 10.

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- 14. (New) An apparatus for producing acrylic acid or acrolein, comprising:
 - a) an evaporator for gasifying liquefied propylene and/or propane,
 - b) means for supplying a liquid coolant to said evaporator,
- c) means for chilling the coolant in the evaporator by recovering latent heat of the liquefied propylene and/or propane, wherein said means for chilling the coolant includes means for adjusting a temperature of said liquid coolant or means for adjusting a flow amount thereof.
- d) means for subjecting resultant gasified propylene and/or propane to a catalytic gas phase oxidation reaction thereby preparing a gas containing acrylic acid or acrolein, and
 - e) means for circulating coolant from the evaporator to heat exchangers attached to the apparatus.